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... under the attacker's control, the accumulated resources can ... RSA's Client Puzzles algorithm (see http://www.rsasecurity ... solve a small puzzle before establishing ...

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W Feng - Proceedings of the ACM SIGCOMM workshop on Future directions ..., 2003 - portal.acm.org ... number of credits accumulated by individual ... Cryptographic Defense Against Connection Depletion," in NDSS ... Authentication with Client Puzzles," Lecture Notes ...

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A public-key based authentication and key establishment protocol coupled with a client puzzle - all 5 versions »

MC Lee, CK Fung - Journal of the American Society for Information Science and ..., 2003 - doi.wiley.com ... incomplete connections would be accumulated by the ... PKI could effectively prevent connection depletion or other ... achieved in using a client puzzle mechanism in ... Cited by 5 - Related Articles - Web Search - Bt. Direct

A general attack model on hash-based client puzzles - all 2 versions »

G Price - Proceedings of the 9th International Conference on ..., 2003 - Springer ... unsolicited e-mails, for which the accumulated cost would ... moderately-hard functions required for their puzzle schemes ... first to introduce the term client puz- zle ... Cited by 5 - Related Articles - Web Search - Bi. Direct

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VN Padmanabhan, DR Simon - ACM SIGCOMM Computer Communication Review, 2003 - portal.acm.org ... Alter- natively, some accumulated value based on multiple received ... a key exchange message with a "client puz- zle ... would have to solve the puzzle—which would ... Cited by 49 - Related Articles - Web Search - BL Direct

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TD Tarman, EL Witzke - 2002 - books.google.com

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S Kumar, EH Spaord - National Information Systems Security'95 (18th) Proceedings: ..., 1996 - books.google.com

... The structure is client-server based in which the server obtains events and dispatches them to clients (patterns) which implement the matching procedure ...

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System - all 5 versions »

LN Foner - 1999 - foner.www.media.mit.edu

... 96 5.7.1 Denial of service privacy sur- rounding doctor/patient and attorney/client information which ... latter need not require a real-time connection for the ...

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... The net effect since the Second World War is that institu- tions of higher education have lost vital connections to their surrounding institutions. ...

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A GIANI, P THOMPSON - ADVANCES IN COMPUTERS, 2003 - ists.dartmouth.edu ... This is in contrast to denial of service (DOS) and other kinds of well-known attacks that operate solely within the computer and network infrastructure. ...

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WJ Buchholtz - Professional Communication, IEEE Transactions on, 1989 - ieeexplore.ieee.org ... reflect on the immense wealth accumulated by certain ... through the ex- cellence of her Harvard connection. ... is hoping that the prospective client thinks Harvard ...

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using ... - all 4 versions »

A Ghosh - 2002 - icir.org

... 164 C.1.2 HTTP - single connection How many people have actually written an ftp client or daemon? Consider the most widely used protocol on ...

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 \dots cross-connect system (DCS) in a client-server-type \dots is the act of making a bidirectional connection through a \dots is fully operational but is not in service and is \dots

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... structure. Connections between components and among sys- tems in general constitute another aspect of physical inte- gration. This ...

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SJ ENGBERG - EP Patent 1,290,599, 2003 - freepatentsonline.com

... an embodiment implementation, Fig 2:"200 Central Entities"shows a logical connection

diagram between ... When CLIENT buying power are accumulated in (perhaps ...

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T Heath - 1984 - John Wiley & Sons

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R Harbison - 1991 - books.google.com

... First of all, until recently no client would have ventured ... mocked up worlds, created in the service of architecture ... maze, they are not especially puzzle-like. ...

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KC Bloomer, CW Moore - 1977 - books.google.com

... in manipulating precise Cartesian coordinates, but they exhibit no connection with the body ... with all the expected anal implications, is to service, trash removal ...

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... Client puzzles: A cryptographic countermeasure against connection depletion attacks ... framework and evaluation method for network denial of service ...

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D Dean, A Stubblefield - Proceedings of the 10th conference on USENIX Security ..., 2001 - portal acm.org

... Client puzzles are an effective means of countering a denial-of-service ... Client puzzles:

A cryp- tographic defense against connection depletion at- tacks ...

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AD Wood, JA Stankovic - 2002 - doi.ieeecs.org

... the puzzles easily, and storage of client-specific information ... the server could scale the puzzles to require ... An existing connection between two end points can ...

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IPDFI Hashcash-A Denial of Service Counter-Measure - all 19 versions >>

A Back... - URL: http://www. hashcash. org/papers/hashcash. pdf. August, 2002 - cypherspace.org ... in the face of connection-depletion attacks. ... protocols with computationally expensive connection establishment phases ... but the analogous client-puzzle system was ...

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[PS] Defending against denial-of-service attacks with puzzle auctions - all 6 versions >

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... connection depletion attacks appears in [18]. Client puzzles have also been proposed to similarly protect authentication protocols against denial-of-service [2 ...

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JR Douceur - Proceedings for the 1st International Workshop on Peer-to- ... - Springer

... popular recently for resisting denial-of-service ... Juels, J. Brainard, —Client Puzzles:

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... a prov- ably secure key agreement protocol to a denial-of-service ... Client puzzles: A cryptographic counter- measure against connection depletion attacks ...

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B Waters, A Juels, JA Halderman, EW Felten - Proceedings of the 11th ACM conference on Computer and ..., 2004 - portal.acm.org

... new way to use puzzles to mitigate denial-of-service ... limit the number of open TCP connections per channel ... of the solution to the client puzzle associated with ...

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A formal framework and evaluation method for network denial of service - all 26 versions »

C Meadows - Proceedings of the 1999 IEEE Computer Security Foundations ..., 1999 - doi.ieeecs.org ... instead of in storing the SYN messages in the connection queue. ... in its initial stages without leaving itself vulnerable to denial of service attacks that ...

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Botz-4-sale: Surviving organized DDoS attacks that mimic flash crowds - all 16 versions »

S Kandula, D Katabi, M Jacob, A Berger - 2nd Symposium on Networked Systems Design and Implementation ..., 2005 - usenix.org

... because even legitimate users may drop puzzles due to ... Similarly, we allow a client that answers a CAPTCHA ... first data packet of the TCP connection will contain ...

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technologies - all 4 versions »

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... Distributed Denial of Service (DDOS) attacks disrupt and ... to determine if TCP connection initiation is ... 2). Proof of Work (or client puzzle) technologies require ...

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D Mankins, H Krishnan, C Boyd, J Zao, M Frentz, ... - Computer Security Applications Conference, 2001. ACSAI 2001. ..., 2001 - leeexplore.leee.org

... Denial-of-service attacks create shortages of a ... resources are expended on the client's task ... SYN floods and buffer overflows, connection depletion attacks using ...

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Game-Based Analysis of Denial-of-Service Prevention Protocols - all 6 versions »

A Mahimkar, V Shmatikov - IEEE Computer Security Foundations Workshop, 2005 - doi.ieeecomputersociety.org ... Instead of randomly generating a new puzzle value, the ... it as keyed hash (eg, HMAC) of the connection parameters, nonces ... (pseudo-)random to the client, yet the ...

Cited by 21 - Related Articles - Web Search

Taming IP Packet Flooding Attacks - all 22 versions »

KLD Adkins, A Perrig, I Stoica - portal acm.org

... One way to achieve this goal is to make it harder for a client to open a new connection by using cryptographic puzzles [17] or captchas [23]. ...

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on ..., 2004 - doi.leeecomputersociety.org

... Network Denial-of-Service (DoS) attacks [26] pose an increasing threat to both ... to

be idle in the middle of an ac- tive connection, the client module will ...

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... SYN cookie, the firewall will establish a connection between a web ... sends a packet back to a client, the source ... Denial of service incidents began to be reported ...

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A taxonomy of DDoS attack and DDoS defense mechanisms - all 49 versions »

J Mirkovic - ACM SIGCOMM Computer Communication Review, 2004 - portal.acm.org

... A distributed denial-of-service attack deploys multiple attack ... EW: Exploited Weakness to Deny Service DDoS attacks ... of substantial space in a connection gueue im ...

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... The actual denial of service attack phase occurs ... Their approach uses a client puzzle protocol designed to allow servers to accept connection requests from ...

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... hard functions required for their puzzle schemes. ... first to introduce the term client puzzle ... s work defends against connection depletion attacks, specifically ...

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... they claimed that PKI could effectively prevent connection depletion or other denial-of- service ... could be achieved in using a client puzzle mechanism in the ...

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VN Padmanabhan, DR Simon - ACM SIGCOMM Computer Communication Review, 2003 - portal.acm.org

... Because the most frequent cause of failed connections will be ... a key exchange message with a "client puz-zle ... to, would have to solve the puzzle—which would ...

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Portcullis: protecting connection setup from denial-of-capability attacks - all 9 versions »

B Parno, D Wendlandt, E Shi, A Perrig, B Maggs, YC ... - 2007 - portal.acm.org

... LAN connection), potentially placing legitimate users at a ... and share puzzles, a legitimate client can quickly ... the pit- falls of previous puzzle schemes: it ...

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TJ McNevin - 2005 - scholar.lib.vt.edu

... 2 1.1. Denial-of-Service Attacks ... known as client puzzles. 2.1. ... attacks on systems.

Occasionally, these attacks are referred to as connection-depletion ...

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S Chen, R Chow - Distributed Computing Systems, 2004. FTDCS 2004. Proceedings ..., 2004 - ieeexplore.ieee.org

... a preconfigured policy, eg, the rate of connections exceed 10,000 ... tunnel towards

As. A virtual client puzzle is simulated ... ε cs and the client traffic from ...

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versions »

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... Alternatively, a connection to such a client can be ... at a higher priority by omitting sending a puzzle. ... a service request received from the client terminal 100 ...

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... Puzzle based methods [11, 12] impose heavily overhead to ... request had been forwarded by the client detector at ... The pending half-open connection on the server S ...

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G Mathur, VN Padmanabhan, DR Simon - research.microsoft.com

... packet has been received. Alterna- tively, some accumulated value based on multiple received packets may be returned. For example, if ...

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[PDF] A Survey of Active and Passive Defence Mechanisms against DDoS Attacks

Y Xiang, W Zhou, M Chowdhury - Australia: Deakin University, 2004 - deakin.edu.au

... When a connection is established between two UDP services, each ... that case it also falls in a denial of service. ... client is much higher than from client to server ...

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[PDF] A Sophisticated Privacy-Enhanced Yet Accountable Security Framework for Metropolitan Wireless Mesh ...

K Ren, W Lou - computer.org

... of individual mesh routers will not affect network connection. ... network users, and

iii) launch denial-of-service ... The WMN should maintain service avail- ability ...

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E Shi, B Parno, A Perrig, YC Hu, B Maggs - reports-archive.adm.cs.cmu.edu

... may employ zombies in Distributed Denial-of-Service ... agreed to provide the corresponding level of service. ... refuses to return the accumulated capability, then ...

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H Hlavacs, W Gansterer, H Schabauer, J Zottl, M ... - Journal of Universal Computer Science, 2008 - jucs.org ... generic token and immediately open a connection to Bob ... Solving the puzzle requires the client to find a ... problem (1) an interesting computational puzzle for our ...

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... If the connection breaks, for instance because of mobility or firewall crashing ... by extending their host names with user, application, and service names, and by ...

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T Giuli, P Maniatis, M Baker, DSH Rosenthal, M ... - Usenix Annual Technical Conference - intel-research.net ... Denial of Service (DoS) attacks are among the most ... either maintaining the underlying TCP connection from message ... CPU-bound schemes such as "client puz- zles ...

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H Rowaihy, W Enck, P McDaniel, T La Porta - Network and Security Research Center, Department of Computer ..., 2005 - nsrc.cse.psu.edu

... admission control system vets joining nodes via client puzzles. ... These puzzle challenges protect neighbors from a ... network to reestablish their connection to the ...

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TJ DRAELOS, MD TORGERSON, MJ BERG, PL CAMPBELL, DP ... - 2003 - cs.nmt.edu ... establish a series of half-open connections constitutes abnormal ... adversary to achieve their goal, namely denial of some ... as a web browser or mail server/client. ...

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... [P9] is a result of collective work with ... clients to solve small cryptographic puzzles before it ... Similar, slightly more complex, client puzzles have previously ...

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D Levine, G Kessler - Computer and Security Handbook. 2002 - books.google.com ... DENIAL OF SERVICE ATTACKS 11-1 1 Exhibit 11.3 ... for the about-to-be- established connection and waits ... 3. The client sends a segment acknowledging the server's ISN ... Cited by 2 - Related Articles - Web Search

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J Dyer, R Perez, R Sailer, L van Doorn - 2nd Australian Information Warfare & Security Conference (..., 2001 paramedium.org

... use the secure processor and software puzzles to achieve ... of the processing resources of the collective system of ... usually be necessary to reboot the client to re ...

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... Nodes can enter and leave the collective without administrative action; such systems are entirely ... This is especially true for a backup service like Pastiche. ...

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... browser software and an Internet connection can be ... over the Internet, which Canadian copyright collective-the Society ... race is a type of client-side application ...

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... There is a lot of collective personal effort directed toward ... occur when it is operating a client process, like ... Host-based denial of service attacks One of the ...

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... but only about 345 client certificates.'), available ... the most in- teresting puzzles surrounding digital ... IDAHO LAW REVIEW collective bargaining agreements under ...

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... Our collective authors' egos aside, the success of all of ... this book will help you to puzzle out the ... gineers for the Accelerated Total Depletion of Information ...

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... of the client, eg by IP spoofing, when combined with other ... Client puzzles: A cryptographic counter- measure against connection depletion attacks. ...

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Analyzing interaction between distributed denial of service attacks and mitigation technologies - all 4 versions »

WJ Blackert, DM Gregg, AK Castner, EM Kyle, RL Hom ... - DARPA Information Survivability Conference and Exposition, ..., 2003 - leeexplore.leee.org

... No Mitigation Combined Mitigation & Tuning ... server to determine if TCP connection initiation is ... Figure 2). Proof of Work (or client puzzle) technologies require ...

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Mitigating distributed denial of service attacks with dynamic resource pricing - all 8 versions > D Mankins, R Krishnan, C Boyd, J Zao, M Frentz, ... - Computer Security Applications Conference, 2001. ACSAC 2001. ..., 2001 - leeexplore.leee.org

... c) Subscriptions in Connections: a client pays for a connection that lasts for an ...

This subscription type may be combined with a time-based subscription to ...

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NetBouncer: client-legitimacy-based high-performance DDoS filtering - all 11 versions »

R Thomas, B Mark, T Johnson, J Croall - DARPA Information Survivability Conference and Exposition, ..., 2003 - ieeexplore.ieee.org

... down or throttling senders through client puzzles [10] and ... to messages returned by a client after it ... this scheme of egress packet tagging combined with ingress ...

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[PDF] Denial of Service Attacks and How to Defend Against Them - all 5 versions »

V Razmov - Survey Project Paper, Dept. of Computer Science and ..., 2000 - cs.washington.edu ... and strategies could be combined to offer ... and John Brainard, "Client puzzles: A

cryptographic countermeasure against connection depletion attacks", In ...

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A public-key based authentication and key establishment protocol coupled with a client puzzle - all 5 versions »

MC Lee, CK Fung - Journal of the American Society for Information Science and ..., 2003 - doi.wiley.com ... prevent connection depletion or other denial-of- service attacks; and, in their

opinions, no additional benefits could be achieved in using a client puzzle ...

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A denial-of-service resistant public-key authentication and keyestablishment protocol - all 4 versions »

CK Fung, MC Lee - Performance, Computing, and Communications Conference, 2002. ..., 2002 - leeexplore.leee.org

... been identified as vulnerable to denial-of-service ... generalizes the concept of stateless connection to prevent ... introduced the concept of client puzzle to combat ...

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IPSI Authorization and availability: Aspects of open network security - all 7 versions »

T Aura - RECON, 2000 - tos.hut.fi

... Similar, slightly more complex, client puzzles have previously been ... one that has certified the client directly ... Inde- pendent paths can be combined for increased ...

Cited by 7 - Related Articles - View as HTML - Web Search

Mandatory human participation: a new authentication scheme for building secure systems - all 6 versions »

J Xu, R Lipton, I Essa, M Sung, Y Zhu - Computer Communications and Networks, 2003. ICCCN 2003. ..., 2003 - ieeexplore.ieee.org

... their individual constituents combined because some ... and J. Brainard, "Client puzzles:

A cryptographic ... measure against connection depletion attacks," in Proc ...

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Cryptographic Salt: A Countermeasure against Denial-of-Service Attacks - all 4 versions »

DG Park, JJ Kim, C Boyd, E Dawson - Proceedings of the 6th Australasian Conference on ..., 2001 - Springer ... something in common with the client puzzle concept in ... verification and another for the client signature verification. ... ideas, however, may be combined as shown ...

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IPDFI Advanced client/server authentication in TLS - all 7 versions »

A Hess, J Jacobson, H Mills, R Wamsley, KE Seamons ... - Network and Distributed System Security Symposium, 2002 - isrl.cs.byu.edu

... according to the specific data or service being accessed ... it is not possible to authenticate the client during the ... at the beginning of a connection, because the ...

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IPDFI Denial of Service in Sensor Networks - all 30 versions »

D Anthony, A John - IEEE Computer, 2002 - cs.virginia.edu

... AND APPLICATION Advances in miniaturization combined with an ... the puzzles easily, and storage of client-specific information ... solve and present the puzzle to the ...

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ICITATION Defending Against an Internet-based Attack on the Physical World

AD Rubin - Proceedings of the ACM Workshop on Privacy in the Electronic ..., 2003 - Association for Computing Machinery

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NJ Princeton, MA Bedford - ACM Conference on Computer and Communications Security: ..., 1999 - Association for Computing Machinery

A Client Puzzle Based Public key Authentication Protocol - all 2 versions >>

CK Fung, MY Wong - Smart Networks, 2002 - books.google.com

... This signature can be combined with the ... Juels and John Brainard, "Client puzzles:

A cryptographic countermeasure against connection depletion attacks," in ...

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JA Stankovic, AD Wood - 2002 - Storming Media

... AND APPLICATION Advances in miniaturization combined with an ... the puzzles easily, and storage of client-specific information ... solve and present the puzzle to the ...

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ICITATION The Dual Receiver Cryptosystem and Its Applications

TDHKL Angelos, DKM Yung - ACM Conference on Computer and Communications Security: ..., 1999 -Association for Computing Machinery

Related Articles - Web Search

Efficient, DoS-resistant, secure key exchange for internet protocols - all 32 versions >

W Aiello, SM Bellovin, M Blaze, J loannidis, O ... - Proceedings of the 9th ACM conference on Computer and ..., 2002 - portal.acm.org

... since the initator is typically a relatively anonymous "client," while the ... more important in the context of recent Internet denial-of-service attacks. ...

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High-speed router filter for blocking TCP flooding under DDoS attack - all 4 versions >

Y Kim. JY Jo. HJ Chao, F Merat - Performance, Computing, and Communications Conference, 2003. ..., 2003 leeexplore.ieee.org

... receives a flow ID from the connection verifier module ... Upon receiving a packet from the client side, the ... For the same combined hash table size, the probability ...

Cited by 5 - Related Articles - Web Search

Key authors: A Wood - J Stankovic - R Dingledine - L Zhou - M Freedman

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DOS-resistant authentication with client puzzles - all 20 versions »

T Aura, P Nikander, J Leiwo - Lecture Notes in Computer Science, 2001 - Springer

... The client may reuse a recent puzzle by generating a new ... Client puzzles: A cryptographic countermeasure against connection depletion attacks. ...

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[PS] Defending against denial-of-service attacks with puzzle auctions - all 6 versions >

X Wang, MK Reiter - IEEE Symposium on Security and Privacy, 2003 - informatics.indiana.edu

... connection depletion attacks appears in [18]. Client puzzles have also been proposed to similarly protect authentication protocols against denial-of-service [2 ...

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Guaranteeing Access in Spite of Distributed Service-Flooding Attacks - all 11 versions »

VD Gligor - Proceedings of the Security Protocols Workshop, 2003 - Springer

... require that clients solve a cryptographic puzzle before server ... has been used to counter connection-depletion attacks [15 ... delay incurred by a client request to ...

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[PDF] Advanced client/server authentication in TLS - all 7 versions »

A Hess, J Jacobson, H Mills, R Wamsley, KE Seamons ... - Network and Distributed System Security Symposium, 2002 - isrl.cs.byu.edu

... client during the initial TLS handshake at the beginning of a connection, because

the ... In order to resume a session, the client and server reuse the master ...

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Efficient, DoS-resistant, secure key exchange for internet protocols - all 32 versions »

W Aiello, SM Bellovin, M Blaze, J Ioannidis, O ... - Proceedings of the 9th ACM conference on Computer and ..., 2002 - portal.acm.org

... Specifically, we allow a party to reuse the same ... is typically a relatively anonymous

"client," while the ... the context of recent Internet denial-of-service ...

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[CITATION] Mitigating Bandwidth-Exhaustion Attacks using Congestion Puzzles

MK Reiter - ACM Conference on Computer and Communications Security: ..., 1999 - Association for Computing Machinery

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[CITATION] The Dual Receiver Cryptosystem and Its Applications

TDHKL Angelos, DKM Yung - ACM Conference on Computer and Communications Security: ..., 1999 - Association for Computing Machinery

A Proposal for DoS-Defensive Internet Key Exchange

MS Choi, DJ Kwak, SJ Moon - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer ... 10] is similar to the puzzle method, except ... client from launching multiple attacks, the client workload should ... Furthermore, the responder prevents reuse of SIG ... Related Articles - Web Search - BL Direct

PROOFS OF WORK AND BREAD PUDDING PROTOCOLS (EXTENDED ABSTRACT) - all 8

versions »

M Jakobsson, A Juels - Secure Information Networks: Communications and Multimedia ..., 1999 - books.google.com

 \dots in a conventional sense-in keeping with the spirit of reuse that motivates \dots Client puzzles: A cryptographic defense against connection depletion attacks \dots

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C Boyd, A Mathuria - 2003 - books.google.com

... the rights of translation, reprinting, reuse of illustrations ... to help the reader identify connections between different ... 5 Reflection 25 1.6.6 Denial of Service ...

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[PDF] Internet Telephony: Architecture and Protocols an IETF Perspective - all 50 versions >

H Schulzrinne, J Rosenberg - Computer Networks, 1999 - item.ntnu.no

... location, which form pieces of the over- all puzzle. ... As there is no network connection state, none needs to ... Client applications can display the name and email ...

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Pastiche: making backup cheap and easy - all 11 versions »

LP Cox, CD Murray, BD Noble - ACM SIGOPS Operating Systems Review, 2002 - portal.acm.org ... How can nodes reuse their own on-disk state ... a signifi- cant period of time, the client likewise removes ... force each node to solve cryptographic puzzles [24] in ...

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The Evolution of Intrusion Detection Systems—The Next Step - all 2 versions »

R Barber - Computers & Security, 2001 - Elsevier

... The target reacts unpredictably (eg drops network connections). ... It allows the attacking client to remote control the ... is set for the IDS jigsaw puzzle to be re ...

Cited by 8 - Related Articles - Web Search

[CITATION] Key Agreement for Secure Voice over IP

J Billien - Master of Science Thesis at IMIT/KTH, December, 2003 Cited by 6 - Related Articles - Web Search

[PDF] An Object-Based Software Distribution Network - all 18 versions »

A Bakker - 2002 - dspace.ubvu.vu.nl

... Stage 4: Returning the Invocation's Result to the Client ... 44 3.8 The Globe Infrastructure Directory Service ... 88 4.5.3 Downloading over Multiple TCP Connections ...

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MH SHERIF - Managing IP Networks: Challenges and Opportunities, 2003 - doi.wiley.com ... Furthermore, some protection against denial of service attacks can be ... TLS) protocols are widely used to secure the connection between a client and a ...

[PDF] Using Secure Coprocessors - all 19 versions »

B Yee - 1994 - www-cse.ucsd.edu

... display is available, care must be taken to verify that the connection to the ... an authentic secure coprocessor if access to any normal remote service can be ...

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... TCIC is a full- service management consulting ... IP Services 64 Software Architecture: Client, Router, Server ... Intelligent Networks GSM Network Connection to SS7 ...

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... A. Caloyannides Demystifying the IPsec Puzzle, Sheila Frankel ... and Running the Example The Target Client-Side Code ... It is impossible to reuse software components ...

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S Barber - Rational Developer Network, 2003 - perftestplus.com

... there is a Denial of Service Attack? - the web server goes down? - we get too many orders for the same thing? Page 9. Solving the Software Quality Puzzle ...

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